

FILTRATOR INSTALLATION  
KIT (KB-1014)

MODEL: BEECH 35-33, 35-A33,  
35-B33, 35-C33,  
H35, J35, K35,  
M35, N35, P35

BERYL AVIATION SPECIALTIES  
VAN NUYS, CALIF.

## INSTALLATION INSTRUCTIONS

1. REMOVE EXISTING OIL/AIR SEPARATOR
2. POSITION BRACKET (ITEM 9) PER DIMENSIONS SHOWN IN FIGURE II
3. MATCH DRILL .25 DIA HOLES (3) THRU REAR BAFFLE ASSY TO MATCH HOLE PATTERN EXISTING ON BRACKET (ITEM 9)
4. INSTALL BRACKET (ITEM 9) TO BAFFLE ASSY WITH SCREWS, WASHERS AND NUTS (ITEMS 11, 12 and 13)
5. SECURE FILTRATOR ASSY (ITEM 1) TO BRACKET (ITEM 9) WITH CLAMP (ITEM 10)  
CAUTION: DO NOT TORQUE OVER 5 TO 10 IN/LBS
6. ATTACH EXISTING ENGINE OIL BREATHER HOSE TO TUBE ON FILTRATOR ASSY (ITEM 1) AS SHOWN IN FIGURE I WITH CLAMP (ITEM 5)
7. ATTACH HOSE (ITEM 4) TO VACUUM PUMP DISCHARGE FITTING USING CLAMPS (ITEMS 7) SEE FIGURE I  
CAUTION: SEE SPECIAL INSTALLATION FOR DRY VACUUM PUMP.
8. ATTACH HOSE (ITEM 3) TO OIL DRAIN LINE FITTING WITH CLAMPS (ITEM 6) SEE FIGURE I
9. ATTACH HOSE (ITEM 2) TO BREATHER OVERBOARD TUBE ON FILTRATOR ASSY (ITEM 1) WITH CLAMP (ITEM 8) SEE FIGURE I

CAUTION: NEW HOSES AND EXISTING LINES MUST BE ROUTED SO THAT NO TRAPS WILL BE PRESENT.

CAUTION: HOSE LINES SHALL BE LOCATED AT LEAST 4 INCHES FROM ANY HEAT SOURCE LIKELY TO CAUSE VAPORIZATION OF OIL.

CAUTION: ON AIRCRAFT EQUIPTED WITH WING DEICER UTILIZING VACUUM PUMP DISCHARGE, PLUG  $\frac{1}{2}$ " OUTLET TUBE ON FILTRATOR ASSY (ITEM 1) AS SHOWN IN SPECIAL INSTALLATION FOR DRY VACUUM PUMP

CAUTION: ON AIRCRAFT EQUIPTED WITH AN ADDITIONAL AIR/OIL SEPARATOR ON CRANKCASE BREATHER LINE, THE FOLLOWING PROCEDURE MUST BE FOLLOWED:

1. CUT LINE BETWEEN AIR/OIL SEPARATOR AND TEE IN VACUUM INLET LINE.
2. PLUG TEE
3. REMOVE EXISTING AIR/OIL SEPARATOR

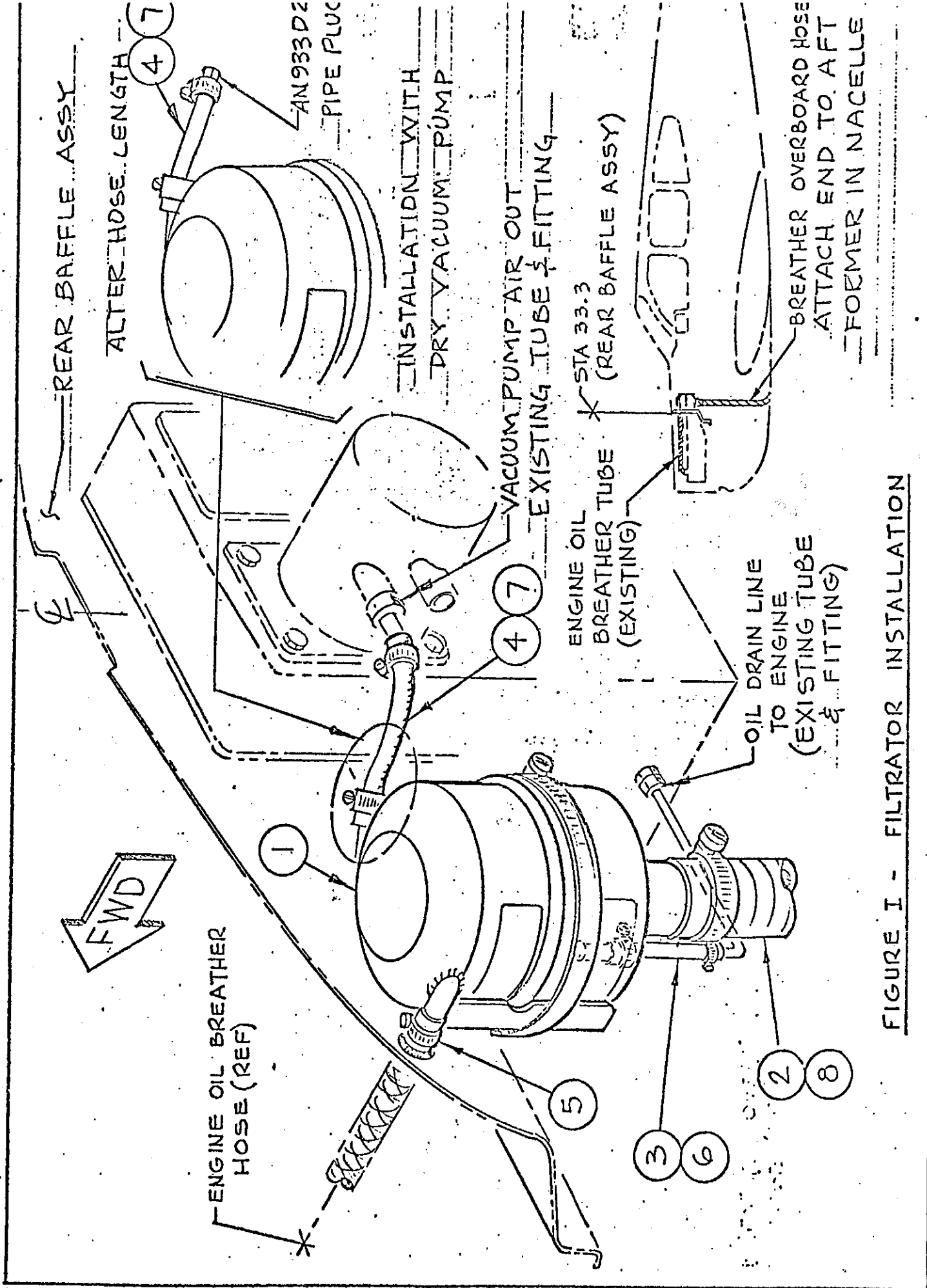


FIGURE I - FILTERATOR INSTALLATION

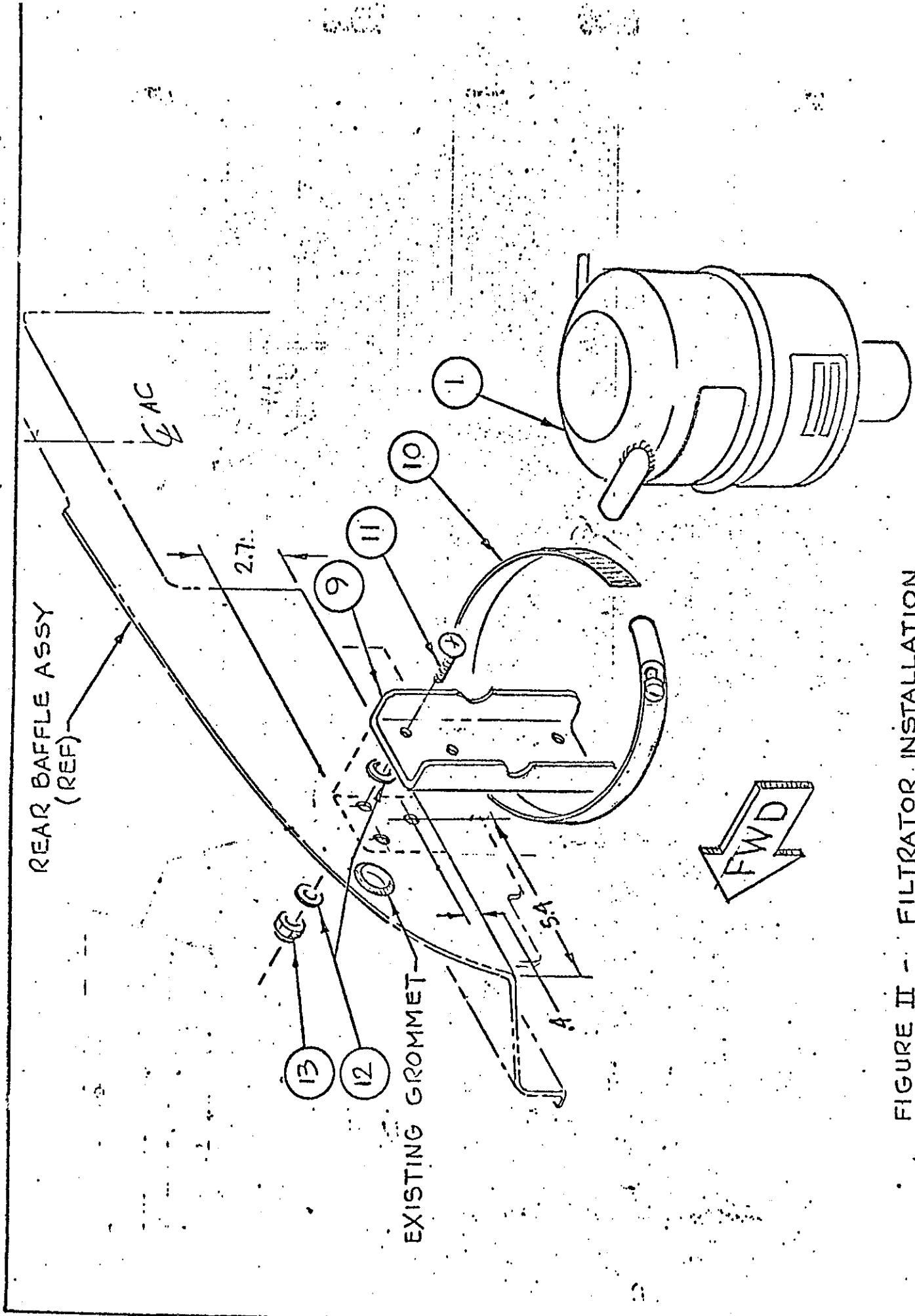


FIGURE II - FILTERATOR INSTALLATION

LIST OF MATERIAL

KB-1014 KIT - FILTRATOR INSTALLATION

ITEM NO.	PART NO.	DESCRIPTION	NO. REQD.
1	B-1114-1	FILTRATOR ASSY	1
2	B-1114-5	HOSE	1
3	B-1114-3	HOSE	1
4	B-1114-9	HOSE	1
5	AN 737TW38	CLAMP	1
6	AN 737TW22	CLAMP	2
7	AN 737TW30	CLAMP	2
8	AN 737TW74	CLAMP	1
9	B-1077-1	BRACKET	1
10	QS100M88	CLAMP	1
11	AN 526R1032	SCREW	3
12	AN 970-3	WASHER	6
13	AN 364-1032	NUT	3

BERTL AVIATION SPECIALTIES  
 7646 Hayvenhurst Avenue  
 Van Nuys, California 91406

FAA APPROVED

MASTER ELIGIBILITY LIST NO. MEL-1014

FOR

INSTALLATION OF ENGINE CRANKCASE BREATHER AND VACUUM PUMP AIR-OIL SEPARATOR

STC NUMBER SA2653WE      DATE      ISSUED  
 APPROVED      23 March 1973

MAKE	AIRPLANE MODEL	TYPE CERTIFICATE NO.	CERTIFICATION BASIS	FAA SEALED DRAWINGS	REV.	REVISION APPROVAL DATE
BEECH	H35, J35, K35, M35, N35, P35, 35-33, 35-A33, 35-B33, 35-C33	3A15	CAR 3 Amended to 5-15-56	B-1014	A	NOV 3/23/73
	S35	3A15	CAR 3 Amended to 5-15-56	B-1016	NC	NOV 3/23/73
	35, A35, B35, C35, D35, F35, G35, 35R, E35	A-777	CAR Part 03 dated 11-13-45	B-1019	N/C	NOV 3/23/73

Department of Transportation — Federal Aviation Administration  
**Supplemental Type Certificate**

Number SA2853WE

This certificate, issued to **BERYL AVIATION SPECIALTIES**

certifies that the change in the type design for the following product with the limitations and conditions therefor as specified hereon meets the airworthiness requirements of Part \* of the Civil Air Regulations.

Original Product — Type Certificate Number: \* See attached Master Eligibility List  
 Make: \* Number MEL-1014 for list of approved  
 Model: \* airplane models and applicable airworthiness regulations.

Description of Type Design Change: Installation of Beryl Aviation Specialties Engine Crankcase, Breather and Vacuum Pump Air-Oil Separator in accordance with the FAA sealed drawing listed on the enclosed Master Eligibility List Number MEL-1014.

Limitations and Conditions: The approval of this change should not be extended to other aircraft of this model on which other previously approved modifications are incorporated unless it is determined by the installer that the inter-relationship between this change and any of those other previously approved modifications will introduce no adverse effect upon the airworthiness of that aircraft.

This certificate and the supporting data which is the basis for approval shall remain in effect until surrendered, suspended, revoked, or a termination date is otherwise established by the Administrator of the Federal Aviation Administration.

Date of application: 27 December 1972

Date issued:

Date of issuance: 23 MAR 1973

Date amended:



By direction of the Administrator  
*[Signature]*  
 (Signature)

*[Signature]* Chief, Aircraft Engineering Division  
 (Title)

Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both.

This certificate may be transferred in accordance with FAR 21.47.

INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form.

1. AIRCRAFT	MAKE Beech	MODEL P35
	SERIAL NO: D6977	NATIONALITY AND REGISTRATION MARK N1795G
2. OWNER	NAME (As shown on registration certificate)	ADDRESS (As shown on registration certificate)
	Raymond B. Bottom, Jr.	P. O. Box 98 Newport News, Va. 23607

3. FOR FAA USE ONLY

4. UNIT IDENTIFICATION				5. TYPE	
UNIT	MAKE	MODEL	SERIAL NO.	REPAIR	ALTERATION
AIRFRAME	♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦ (As described in item 1 above) ♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦				X
ENGINE					
PROPELLER					
APPLIANCE	TYPE				
	MANUFACTURER				

6. CONFORMITY STATEMENT

A. AGENCY'S NAME AND ADDRESS  Air Service Inc. P. O. Box 8237 Greensboro, N. C. 27410	B. KIND OF AGENCY		C. CERTIFICATE NO.  RS4243
	U.S. CERTIFICATED MECHANIC		
	FOREIGN CERTIFICATED MECHANIC		
	X CERTIFICATED REPAIR STATION		
			MANUFACTURER

D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.

DATE  10-17-73	SIGNATURE OF AUTHORIZED INDIVIDUAL <i>Homer L. Brendle</i> Homer L. Brendle, Inspector
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7. APPROVAL FOR RETURN TO SERVICE

Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Agency and is  APPROVED  REJECTED

BY	FAA FLT. STANDARDS INSPECTOR	MANUFACTURER	INSPECTION AUTHORIZATION	OTHER (Specify)
	FAA DESIGNEE	REPAIR STATION	CANADIAN DEPARTMENT OF TRANSPORT INSPECTOR	



8. DESCRIPTION OF WORK ACCOMPLISHED (if more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

Installed the following equipment:

Beryl Air/Oil separator Kit # KB-1014, STC SA 2653 WE.  
Larago ELT Model 79007  
Beech Alternator Kit # 33-3001N

The Beryl Air/Oil separator was installed I/A/W Beryl instructions.

The Largo ELT was mounted in aft fuselage at station 200, I/A/W AC43.13-2, chapter 2.

The antenna was mounted at 206 I/A/W AC43.13-2, chapter 3.

Installed switch and placard for ELT adjacent to radio panel.

The removal of generator and installation of alternator was performed I/A/W Beech drawing 33-3001 and Beech Maintenance Manual.

This installation meets all other applicable sections of AC43.13-1A and 43.13-2.

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THE END